(60)

Previous references.

1908-9

(Genl. Mis.)

File No. 238-08

Serial Nos. 1-21/22

Later references.

GENERAL AND REVENUE SECRETARIAT.

Serial Nos. 1-22

Part B. for March 1910

SUBJECT.

Application of the Konimax Rock drill Co Ltd, Johannesburg for leave to file a specification of an invention for 'Improvements relating to percussive machines for rock drilling and analogous purposes.'

---

1. From Messrs. Remfry & Co, Calcutta.
Letter dated 23.1.09. & recd 26.1.09.
Forwarding the above application with the deed of assignment and power of attorney and advising remittance of Rs 12.

2. To Messrs Remfry & Co, Calcutta
No. 4654 dated 11.2.09.
Acknowledging deed of assignment & application & requesting to be informed of the amount of consideration remitted by the assignee in respect of

the invention and call for any Excess stamp fee that may be required under the Mysore Stamp Regulation (with the Lens.

3. From Messrs. Remfry & Sons Calcutta.
Letter dated 20.5.09.

States that the assignment in question has been sent to South Africa and will be submitted after its receipt and returns the application mentioned in Sl. 1.

4. From Messrs. Remfry & Sons of Calcutta.
Letter dated 9.7.09.

Returns the assignment the consideration named therein having been altered to £ 35-/ and forwards by M.O. Rs 5-/ in addition to Re 1 already sent towards stamping of the above document.

5. To the Officer in charge of S.H. Dy
No. G. 276 of 17.7.09.

Forwards Rs 10-/ recd. with Sl. 1 for

6. To the Supt of Stamps.
No. G. 277 of 17.7.09.

Forwards with Rs 7-/ in being stamped & registered the assignment & Power of Attorney recd with Sl. 1 & 4

7. To the State Geologist.
No. G. 278 dated 19.7.09

Forwards for favour of opinion the Specification recd with Sl. 1.

8 To the Officer in charge of S.H. Dy
No. 25 dated 19.7.09.

Acknowledges receipt of Rs 10-/ sent with Sl. 5.

Inventor Reports
vol 4 of 1909-10

G.R.S.11] 1908 9

GENERAL AND REVENUE SECRETARIAT

(Gen Mis)

NOTES.

G. M. File No. 238
08

FILE HEADING.

Application of the Konomax Rock Drill Co Ltd, Johannesburg Transvaal, for leave to file a specification of an invention for "Improvements relating to percussive machines for Rock drilling and analogous purposes"

From

Messrs Rempey & Son, Calcutta

No. Letter Dated 23-1-09 Received 26-1-09

Diary No. 3172	Enclos. 3	Spare Copies	Serial No. 1

BRIEF ABSTRACT OF LETTER.

Forwards the above appn with the deed of assignment and power of attorney, and advises Remittance Rs 12/-

NOTES AND ORDERS.

1 The M.O. for Rs 12/- has been received.
Of this sum of Rs 12 Rs 10 is on the fee for the appn and the remaining 2 Rs is meant for stamp fee for the Deed of assignment and the power of attorney. The fee for the latter is

NOTES—First sheet

GPB—30,000—3-4-07.

G. R. S. 12]
General and Revenue Secretariat.

3172

Gen File No. 238 of 1908-09

Serial No.	
	As Rel and the fee for the former varies with the amount of the Consideration received by the assignor (vide Schedule I art 22 of the Mysore Stamps Rules). but ~~this~~ no such amount has been specified in the deed of assignment. A draft returning the appn with the deed and requesting the firm to ascertain the amount is put up
	30/1/09
	2. Issue 5.2.09
2.	To Messrs Rumsey & Son no 14659 of 11-2-09. Returning the deed of assignment and the application requests to be informed of the amount of consideration received by the assignor in respect of the invention and calls for any excess stamp fee that may be required under the Mysore Stamp Regulations (copy enclosed).
3	From the same letter dated 20.5.09. States that the assignment in question has been sent to South Africa and will be submitted after its receipts and returns the application mentioned in Sl 1.

'NOTE'—Contn. sheet.

GPB—50.000—13-5-08

G. R. S. 12]
General and Revenue Secretariat.

Gen. File No. 238 of 1908-09

Serial No.

201

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3. No action can be taken till the deed of assignment is received. May this be kept in Suspense?

(Cf. Note 26.5.09)

4. 4/5 SB 26/5

4. To Messrs Remfry and Son of Calcutta dated 9.7.09.

Returns the assignment, the consideration named therein having been altered to £ 3 s- and forwards by P.O. Rs 5 in addition to Re 1 already sent towards stamping of the above document.

May 4.

5. 3 Offs are submitted:—

1) Remitting the application fee to the Dy.

2) forwarding Power of Attorney & Assignment for being stamped

3) forwarding the Specification for examination

(Cf. Note 14.7.09)

6 Issue 15/7/09

5 To the Asst in charge the Rate Enquiry No G 276 & 17.7.09. Forwards Rs 6/- received with Sl. requisition

NOTE—Contn. sheet.

GPB—50.000—13-5-08

G. R. S. 12]
General and Revenue Secretariat.

Gen. File No. 238 of 1908-09

Serial No.	
6	To the Supdt of Stamps No G 277 & 17.7.09 forwards with Rs 7, for being stamped the assignment & power of attorney read with sl 1 & 4
7	To the State Geologist. No G 278 & 17.7.09 forwards for favour of opinion, the specification read with sl 1
8.	To the Officer in charge of State Treasury No. 25 d 19.7.09. Acknowledges the receipt of Rs 10 sent with sl 5
9.	To the Supdt of Stamps. No 17 d 19.7.09 Returns duly stamped, the power of Attorney and assignment, forwarded with sl 6 above. / Serials 8 & 9 are submitted for perusal with a dft. answer & sl 9 (Yours 21.7.09) & Issue — 27/7/09
10	To the Supdt of Stamps No G 409 & 24.7.09 Acknowledges the receipt of the power of attorney & the assignment deed sent with sl 9.
11.	From the State Geologist No 670 d 1.9.09

NOTE—Contn. sheet.

GPB—50.000—13-5-08

Serial No.

974

Returns with his remarks the specification sent with 8 & 9.

9 The State Geologist is of opinion that the devices are clearly described, all the points claimed possess novel features and the claims are legitimate.

10 If ordered, Dft. order granting leave to file a specification will be put up.

Submitted for orders

(C 3.9.09) 11. Dft. order and a Dft. letter forwarding the order to Messrs Rempfry & Son, of Calcutta are submitted for sign

(C bus. 4.9.09) 12 Signed. Dft. Sgd

6

12 To the Konomax Rock Drill Syndicate Johannesberg. - No G 15-38 & 10.9.09 Grants them permission to file the specification in question

13 Messrs Rempfry & Son Calcutta No G 1539 & 10.9.09 Forwards 8 & 12 for communication to the party concerned Registered

14. From Messrs Rempfry and Son. Letter dated 1st March 1910 Files a specification referred to in 8.

SW 15/9

G. R. S. 12]
General and Revenue
Secretariat.

Gen—File No. 238 of 190 9-10

Serial No.	
19	From the State Geologist - No 1937 dt 19.3.10 Acknowledges the receipt of the Specification referred to in sl 18.
20	From the Supdt, Govt museum No 171 dt 15.3.10 do
21	From the Officers in Ch of State Hydro Dept No 359 dt 16.3.10 — Acknowledges the receipt of Rs 30 sent with sl 18 above Serials 19 to 21 are submitted for perusal. The last Column on page of the Enumeration Registers (22.3.10) VS Seen. Registers initialled 23/3/10
22	From the Chief Engineer No 2544 dated the 21-3-10. Acknowledges the receipt of the copy of Specification sent with sl 17 This file may be recorded now — Subd (26.3.16) VS Yes 30/3/10

NOTE—Contn. sheet.

BPG—55,000—27-4-09

Rec'd 12/-
Remfry & Son.
26/1

The Knonmax Rock Drill Synd Ld. Application filing fee and for Stamping p/a and Asst.

REMFRY & SON.

26/1/09

S P E C I F I C A T I O N.

TO ALL WHOM IT MAY CONCERN.

BE IT KNOWN THAT THE KONOMAX ROCK DRILL SYNDICATE LIMITED, a Company duly registered under the Limited Liability Laws of the Transvaal and having its office at Consolidated Building, Johannesburg, Transvaal, is in possession of an invention for Improvements relating to percussive machines for rock drilling and analogous purposes, and , the said THE KONOMAX ROCK DRILL SYNDICATE LIMITED

do hereby declare the nature of the said invention and in what manner the same is to be performed to be particularly described and ascertained in and by the following statement thereof, that is to say:-

This invention relates to percussive cutting machines provided with automatic feed mechanism of the known type in which the percussive machine proper, having means for constantly urging it forward, is checked in its forward movement by hydraulic means and feeding is determined by partial release of the checking means upon completion of a full forward stroke by the reciprocating member.

One object of the invention is to embody such known feeding means in a novel form which renders the whole machine compact and of superior practical value to similar devices hitherto proposed. Another object is, in such feeding devices, to improve the means for making the rate of feeding correspond with the rate of cutting and a further object is to utilise the actuating fluid which supplies the percussive machine, when the latter is of the fluid

SOLICITORS & PATENT AGENTS REMFRY & SON. CAPE COLONY

actuated type, as the propelling agent for the same.

A further object is to combine with the novel feeding means as aforesaid, means whereby the machine automatically ceases to work when the feeding device has fed the machine through the desired range or to the full limit which the feeding device is capable of. A further object again of the invention is to provide, in a rock drilling machine, a positive means for feeding water into or around the hole being drilled or otherwise upon the work, such that the supply of water and the working of the machine are mutually dependent, with the result that drilling of a dry hole is rendered impossible. The specific object of the invention is to provide a compressed air rock drilling machine which is substantially automatic throughout; that is to say which being once adjusted and supplied with air, will reciprocate and rotate the drill, feed itself forward, tend to relieve itself in a special manner if jammed by accumulation of dirt in the hole, supply water to lubricate the drill, to clear the hole and to allay dust, and when the drill is down to its full extent or when the hole has otherwise been drilled to the predetermined extent, will cease to work until adjusted for the next operation. The means attaining the more specific objects stated consist to a certain extent in the combination of the inventions attaining the more general objects with inventions described in co-pending applications.

It has already been proposed, in machines of the type to which this invention relates, to cause the operations of feeding the drill or advancing the drilling or boring bit or tool, as the hole deepens, to be effected automatically by the pressure of the actuating fluid, while the power cylinder has been arranged concentrically inside the protective casing and adapted to slide longitudinally thereof in either direction within certain limits.

In carrying out the present invention the percussive machine may be actuated by any suitable means, such as compressed air, electricity or otherwise. The space between the front of the casing and the machine cylinder head is filled with water to constitute hydraulic checking means. The machine is urged forward in the casing and against the body of water by appropriate means, usually, but not necessarily, by the compressed air or steam provided for its actuation being introduced into the rear end of the casing.

Although the use of an outer casing, within which the machine cylinder is moved by pressure from the rear, is not new, the checking means hitherto proposed in this connection have either been mechanical braking devices or bodies of elastic fluid. Both such means are impracticable owing, inter alia, to their uncertain action and their inability to ensure rigidity of the machine cylinder when the feed is non-operative. The hydraulic checking means herein described is comparable in respect of rigidity with a solid body, whilst it permits the maximum accuracy and certainty of operation to be obtained.

The invention as applied to an air actuated percussive rock-drilling machine as illustrated in the accompanying drawings in which Fig. I is a longitudinal section, shpwing the machine piston retracted in its cylinder; Fig. II is an enlarged detail view, with the machine piston at the front of its travel; Fig. III is an enlarged longitudinal section through the head of the external shell, Fig. IV shows a dirt excluding device which will be more particularly described hereunder, Fig. V is a section on the plane A-A Fig. II but showing a modification of the water controlling means, Fig. VI, is a longitudinal section, a portion thereof,

to the right, being taken on the plane B-B Fig, V and the other portion, to the left, on the plane B-C Fig. V and Fig. VII is an enlarged section taken on the plane D-D Fig. VI.

The drilling machine shown in the drawings is described in detail in a co-pending Application No. 15120 of 1907. Its principal features material to the present invention are as follows: The machine cylinder comprises a larger forward member 1 and a rear smaller member 2 the latter being closed by a cap 3. The air distributing valve being internal there are no projecting parts and the member 1 is truly cylindrical externally The front cover for the cylinder is indicated by numeral 4 and it extends around the piston rod 5 as a neck 6. The piston 7 contains the distributing valve, which passes air to and from the front of the cylinder through the ports 8. The latter open upon a shoulder 9 formed at the front end of the piston; a corresponding recess 10 is cut in the front cylinder cover 4, so that in the event of the piston 7 making an abnormally long forward stroke, the shoulder 9 enters the recess 10, and the air ports 8 being thereby on the present instance closed, the machine is automatically stopped.

The piston rod 5 is perforated with an axial bore 11 which receives the exhaust air from the internal valve aforesaid and passes it away from the machine. 12 indicates an annular recess in the neck 6; 13 is an aperture drilled through the piston rod and 14 is a port by which, upon the piston completing its forward stroke, the air exhausted from the fromt side of the distributing valve to permit the reversal of the same, is conducted to the recess 12 and thence through the aperture 13 to the bore 11. Air to actuate the machine is supplied through the holes 15 formed in the shoulder 16 between the cylinder members.

The machine is further provided with the usual rifle-bar and ratchet drill-rotating device; and the construction of the air distributing means is such that upon the drill failing to make a normal back stroke, as when the air supply is throttled, or in case of its being impeded by debris in the bore hole, the piston tends immediately to make a second forward stroke under full pressure and thereby in the latter case to clear the drill

Reverting to the present invention, the machine cylinder just described is fitted to slide within an external shell 17, the cylinder member 1 thus constituting a plunger. 18 indicates a pair of oppositely disposed cup leathers which are secured to the cover 4 by an annular nut 19 and which form a tight sliding joint between the cylinder 1 and the shell 17. The shell 17 is closed at the front and rear ends by the caps 20 and 21 respectively. The neck 6 and piston rod 5 are extended sufficiently to project through the front cap 20 when the machine is drawn to the back of the shell and suitable packing 22 is inserted to form a joint between the neck 6 and the cap 20. The rear cap 21 is provided with a regulating cock 23 for compressed air. The drill chuck 24 is made detachable from the piston rod 5 so as to permit the latter being passed through the sleeve 6, the end of the piston rod being in this instance tapered and forced firmly into the chuck

The space 25 between the cover 4 and the cap 20 constitutes a water chamber and to supply water thereto a cock is formed in the said cap, as shown in Fig. III. As illustrated a perforated conical plug 26 is sunk into the cap and held therein by a threaded washer 27 having a central orifice 28 through which a key may be inserted into a square hole 29 sunk in the plug, to turn the latter. The plug controls a channel 30 running through the cap 20, said channel being enlarged and screwthreaded at the outer end 31 to receive the nipple of a water hose.

32 represents a water passage formed in the neck 6 and leading from the rear end of the water chamber 25 to the internal surface of said neck. An annular groove 33 is turned on the piston rod, which latter is packed at either side of the groove with leather rings 34; forwardly disposed holes 35 lead from the groove 33 to the interior of the rod. The groove 33 and rings 34 are located sufficiently far up the piston rod so avoid the annular recess 12 on the back stroke of the piston. The position of the inner end of passage 32 is determined by that of the groove 33 as will be understood from what follows.

Before commencing to operate the machine, the shell 17 being first secured to a convenient support, water is passed in through the cock 26, filling the chamber 25 and driving the machine cylinder to the rear end of the shell. The cock 26 is now closed and compressed air admitted through the air cock 23.

Such air presses upon the rear of the machine cylinder and holds the same firmly up against the body of water in chamber 25; the water contained in said chamber is thereby put under pressure, which, as a matter of fact, is greater than that of the air, by reason of the difference of the exposed areas of the cylinder ends. No forward movement of the cylinder occurs since the water is at first afforded no outlet.

Meanwhile, air passes through the ports 15, and drives the piston forward; the drill 36 being usually at first some little distance from the rock face, the piston 7 is forced beyond its normal forward stroke in the cylinder and the shoulder 9 enters the recess 10 thereby preventing the piston from reciprocating as explained above.

With the piston so disposed the groove 33 registers with the channel 32, water is thereby permitted to escape'

from the chamber 25, and in consequence the machine cylinder moves forward in the shell by reason of the air pressure behind it. The piston travels with the cylinder until the drill is brought up to the rock face, after which the cylinder continues to move until the cylinder head 4 clears the shoulder 9, whereupon the air passes through the ports 8 to the front of the cylinder, the piston makes a backward stroke (during which the channel 32 is closed and the cylinder is held stationary) and thereafter continues to reciprocate normally.

Thereafter, escape of water and feeding forward of the machine occurs at every full stroke, until the water supply is exhausted and the cylinder comes to a stop against the cap 20. The strokes of the piston will then increase sufficiently for the shoulder 9 to again enter the recess 10, thereby once more cutting off the supply of air to the front of the cylinder and causing the machine to cease work. The air cock 23 being then closed, and a fresh drill inserted if necessary, the chamber 25 is refilled and upon re-opening the air cock the operation is repeated. It will be observed that the groove 33 is elongated so that the further the drill cuts into the rock, carrying the piston forward with it, the longer the channel 32 is kept open and consequently the more water is past ; the rate of feeding being thus automatically regulated by the rate of drilling.

The water controlling means above described, whilst being serviceable under comparatively low working pressures and having the advantage of extreme simplicity, necessitates, when working with high pressure, a close fitting of the piston rod 5 in the neck 6 which may be found difficult to maintain in practice; and to obviate such difficulty the device shown in Figs. V-VII is provided.

Referring to said figures 37 represents an annular valve bush or casing, sunk into the cylinder head 4, within which casing works a piston valve 38. The latter has a stem 39 projecting from the front of the casing and is bored longitudinally as indicated by the numeral 40. The rear face 41 of the valve and the end face of the stem being thus exposed to equal unit pressure from the air in the cylinder, the greater area of the former causes the valve to be constantly urged forward or towards the piston, as though by a spring.

In the casing are formed the peripheral recesses 42 and 43 from which holes 44 and 45 respectively communicate with the interior of the casing. Communication between the water chamber 25 and the recess 42 is established by cutting a groove 46 through the threads upon which the nut 19 works and thence drilling a hole 47 to said recess. A cross hole 48 is provided to join the recess 43 with the water port 49 which opens upon the piston rod similarly to the port 32 already described. A small channel 50 affords communication between the front of the piston valve and the recess 43 whereby the front shoulder of the valve is constantly relieved of pressure.

Upon the piston 7 making a full forward stroke it strikes the valve stem 39 and drives the valve back, thereby putting the holes 44 and 45 into communication by way of the annular groove 51 formed around the valve, and permitting water to pass from the water chamber into the piston rod. The groove 51 is made of such length as to pass water whatever the position of the piston 7 in excess of the normal stroke, thereby causing the amount of water passed to be proportional to the rate of cutting as in the arrangement formerly described. Upon the piston being retracted, the air pressure forces the valve backward thereby stopping the flow of water

a bush and to the inner end of this bush was fixed a wire gauze strainer, which served for preventing the ingress into the machine of any particles of solid matter or other impurities that might be contained in or carried by the actuating fluid. In Figure IV is shown an attachment forming an improved strainer or filtering means and comprising a cylindrical cage 53 of wire gauze or other suitable perforated material which is passed around the smaller cylinder member 2 and is held between the cylinder shoulder 16 and cap 3. Such gauze cage is corrugated to make contact both with the machine cylinder member 2 and the shell 17 and thus prevents grit from reaching the air holes 15 or the periphery of the larger cylinder member 1.

Having now particularly described and ascertained the nature of my said invention and in what manner the same is to be performed, I declare that what I claim is:-

1. In combination, a percussive machine comprising a relatively fixed member and a member reciprocable relatively thereto, an external shell surrounding the relatively fixed member, the space between the front end of the shell and the relatively fixed member being constituted a water chamber, means forcing the relatively fixed member forward in the shell and means operating upon a prescribed relation of the percussive machine members being reached to cause the escape of a portion of the water.

2. In feeding devices for percussive machines in which forward movement of the machine is checked by a body of water and feeding is determined by release of a portion of the water, water releasing means adapted when the piston is forced beyond its normal forward stroke to permit the escape of a regulated quantity of water the quantity depending upon the distance in excess of the normal over which the piston has been forced.

3. In feeding devices for percussive rock drilling machines, in which forward movement of the machine is checked by a body of water, of which a portion is periodically released; means for directing such released water in or about the hole being drilled.

4. In a feeding device as specified in Claim 1, water releasing means consisting of a valve actuated by the piston, substantially as described with reference to Figures V, VI, and VII.

5. In a machine as specified in Claim 1, a piston rod associated with the reciprocating member, a neck extending from the relatively fixed member and surrounding the piston rod, a port in the neck communicating with the water chamber, a port in the piston rod so located as to register with the neck port upon the piston making a full forward stroke, and means for exhausting water from the piston rod port.

6. A percussive machine as specified in Claim 5, in which the piston rod is hollow and has its bore constantly in communication with the atmosphere and in which the water passed into the piston rod port is exhausted into the piston rod bore.

7. In combination, a fluid operated percussive machine, a shell surrounding the same, the space between the front of the shell and the machine cylinder constituting a water chamber, means for supplying fluid pressure to the rear space of the shell to operate the percussive machine and to force the machine forward into the water chamber, and means regulating the escape of water from the water chamber.

8. In a fluid operated percussive machine of the known type but adapted to receive its actuating fluid from the rear, a shell surrounding the same, means for supplying fluid pressure constantly to the rear space of the shell to actuate said percussive machine and to force the same

forward in the shell and regulatable means substantially as described for checking movement of the machine in the shell

9 In a fluid operated percussive machine of the kind referred to in Claim 1, a shell, a machine cylinder slidable therein and being adapted to receive its actuating fluid through rearwardly directed means such as the ports 15, and fluid filtering means such as the cage 53, shielding the external sliding surface of the cylinder and the fluid receiving means.

10. In a percussive machine having means for feeding it to the work and liquid checking means adapted to be released upon the percussive member making a full forward stroke; so constructing the machine that upon the percussive member making an abnormal forward stroke its reciprocation is thereby stopped.

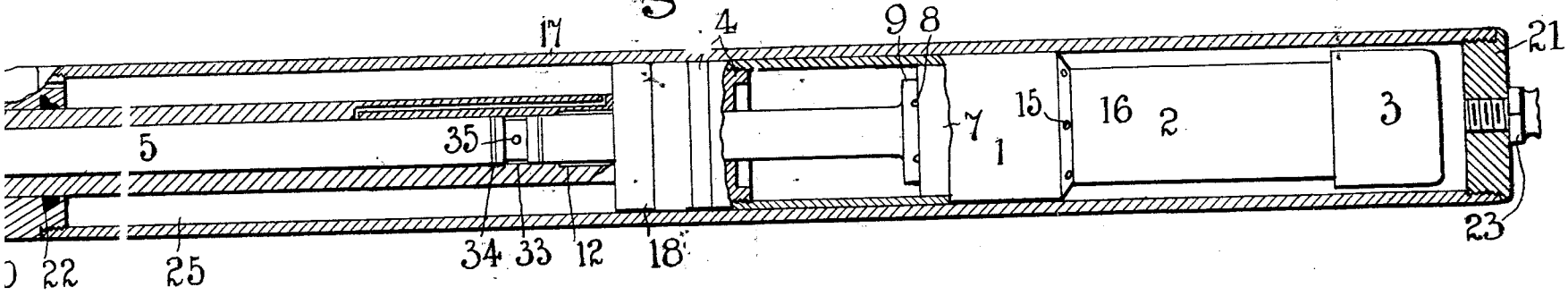
11. The several improvements in and relating to feeding means for percussive cutting machines substantially as described and illustrated.

The Ingersoll Rock Drill Syndicate Ltd

per pro Agent

Robert Kennedy

Fig 1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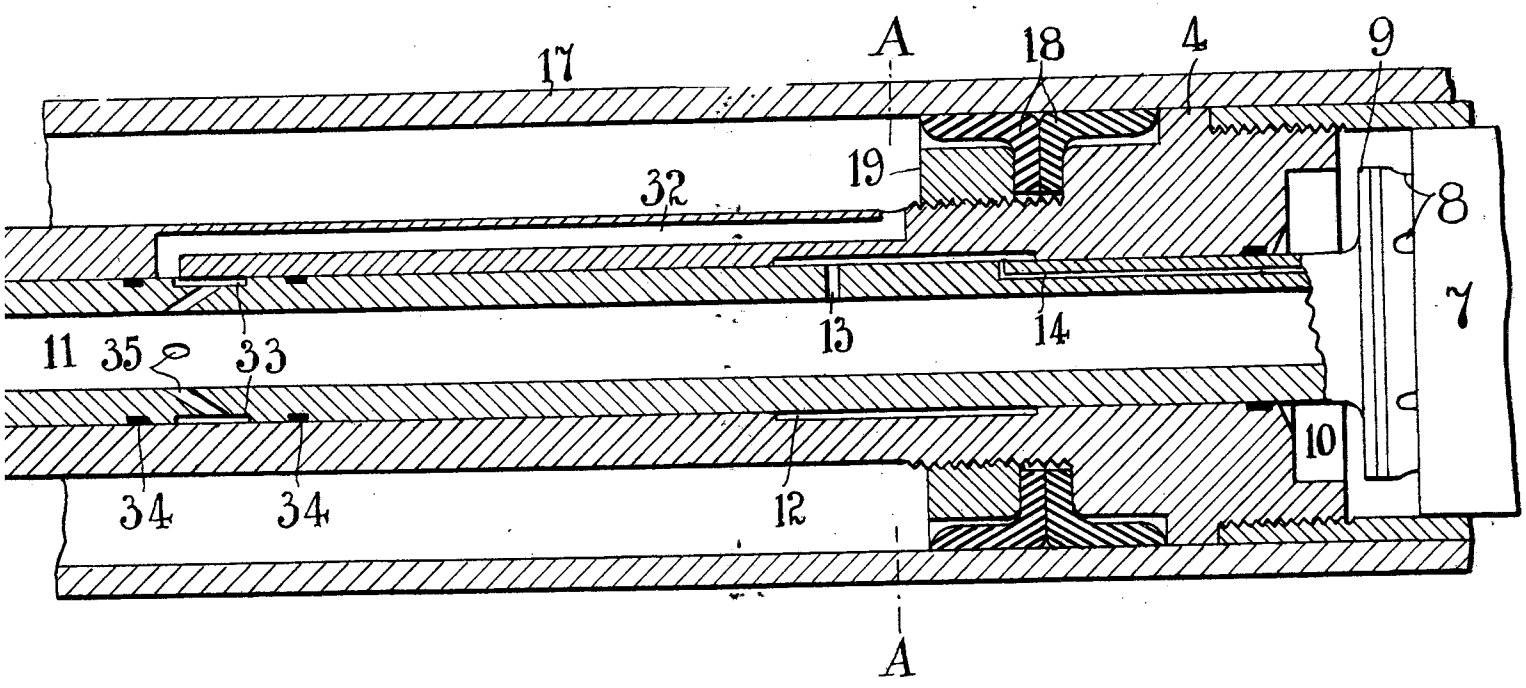
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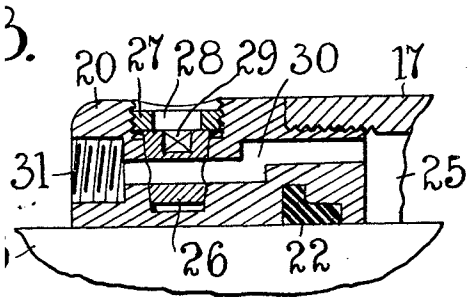
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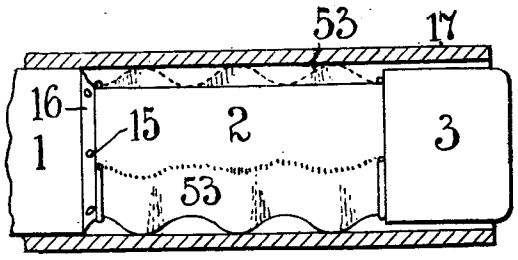
Fig.4.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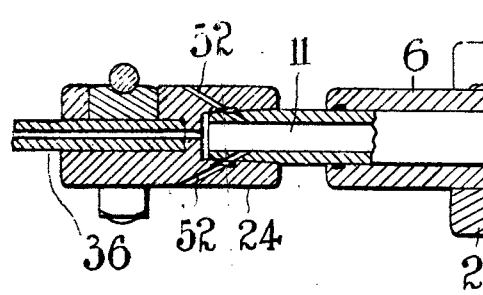


Fig.2

Fig

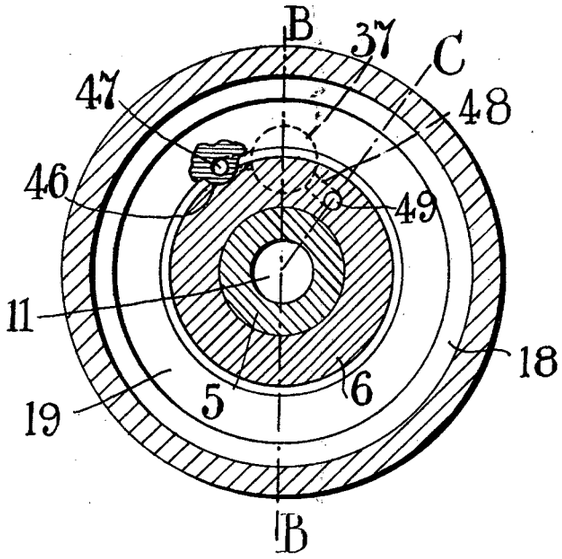
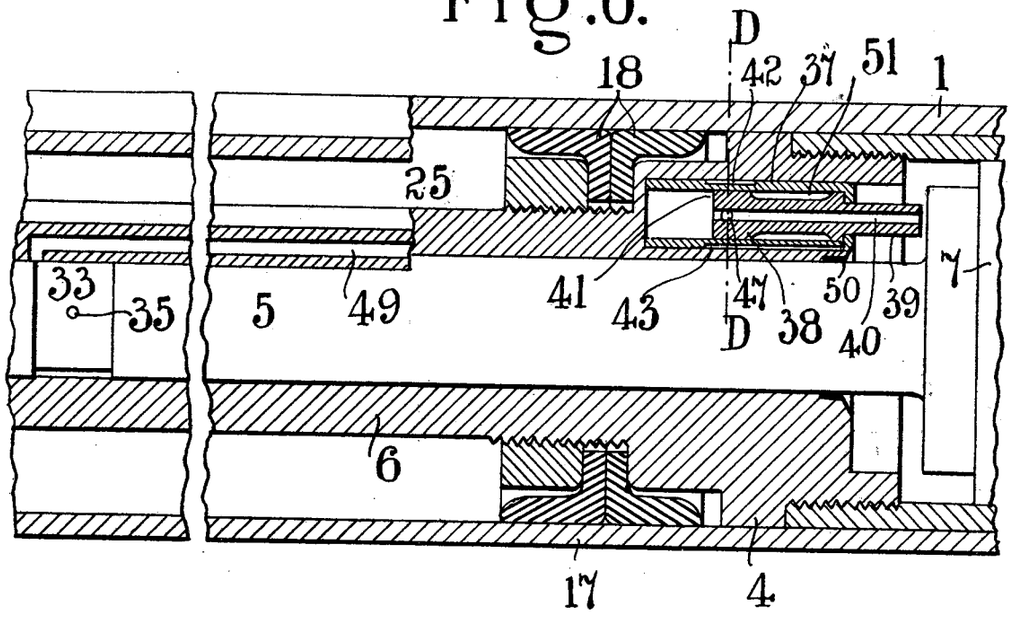


Fig.5.

Fig.6.



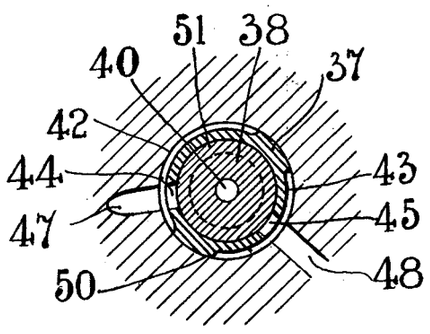


Fig.7.

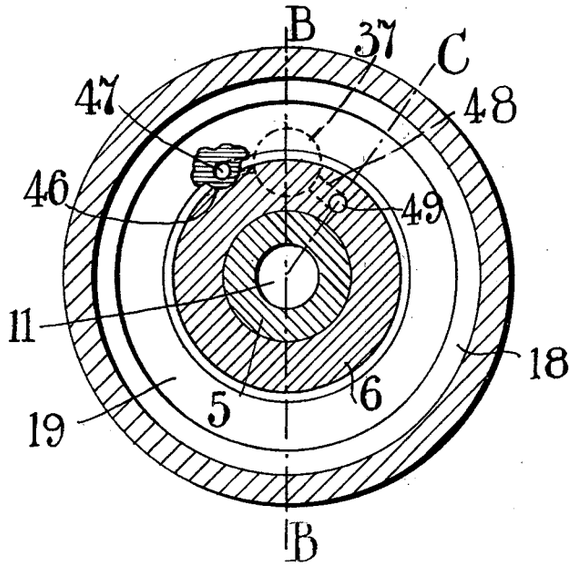
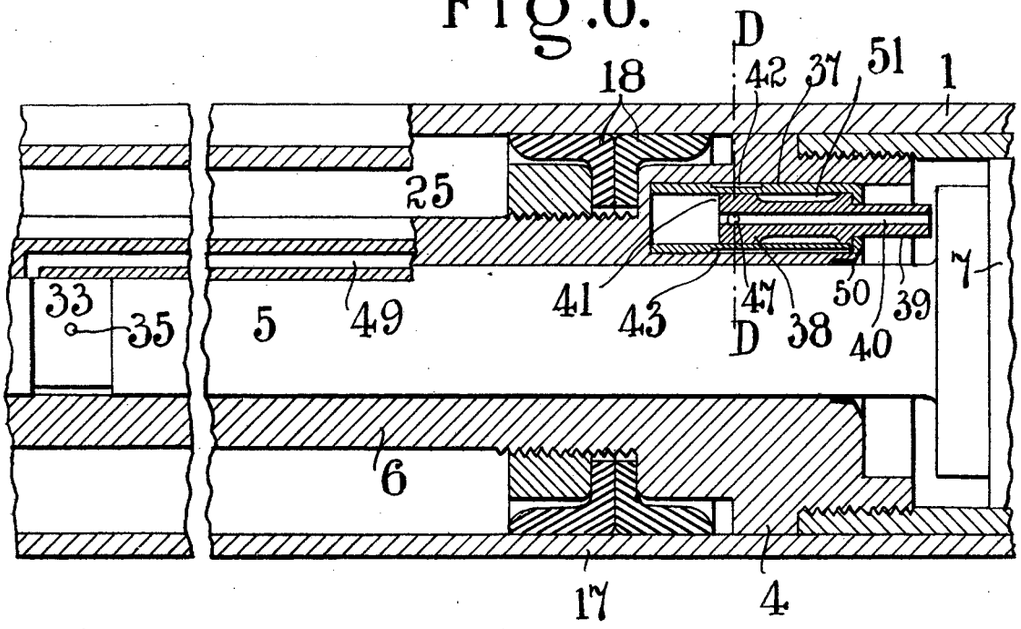


Fig.5.

Fig.6.



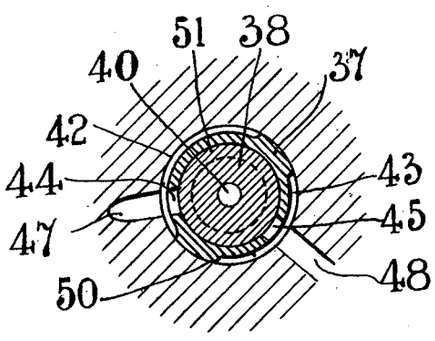


Fig.7.

Fig

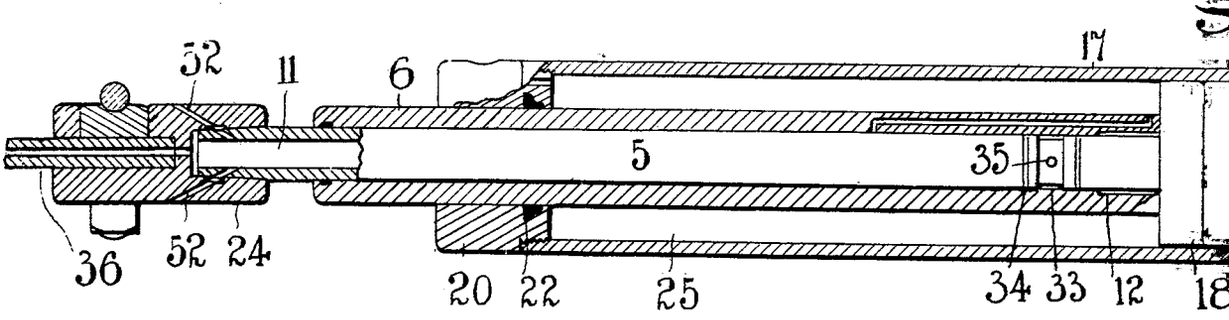


Fig.2.

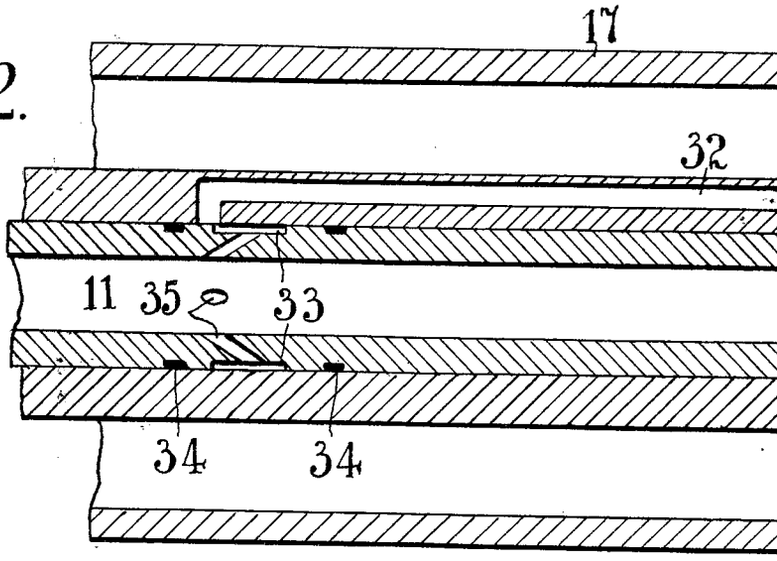
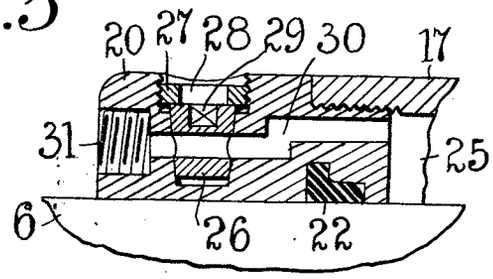
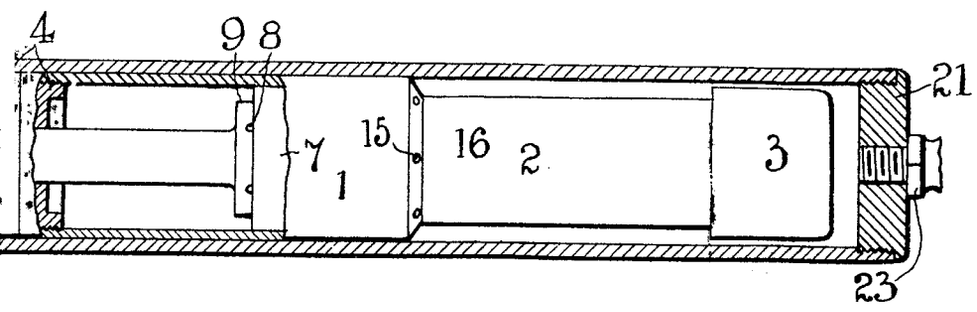


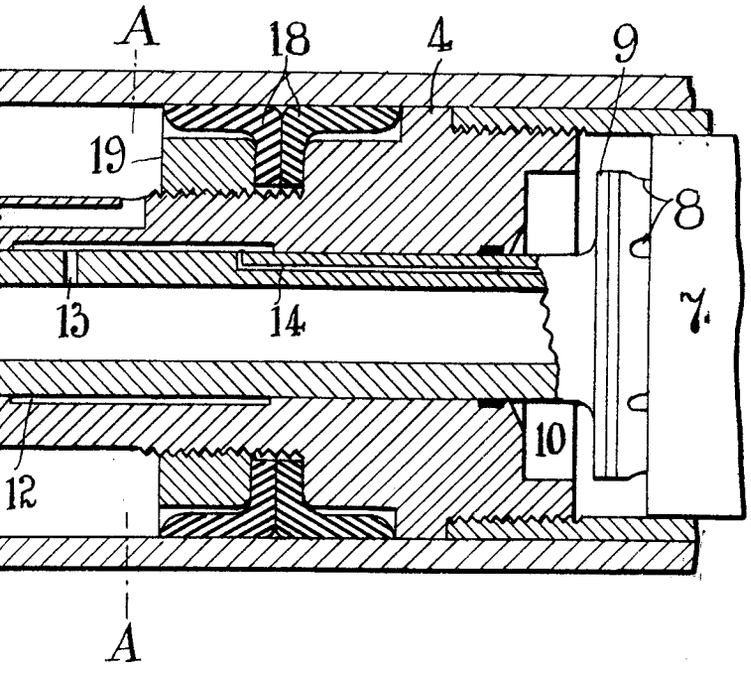
Fig.3



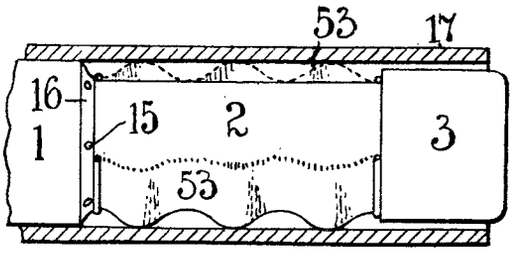
Fig

1





4.



G.R.S. 26]

G. M. File No. 238-08

Serial No 2

Diary No. of letter replied to 372

No. 4657
Enc 3

General and Rev. Secretariat
( )
, *the* 190

To

Messrs Remfry & Son,
Solicitors & Patent
Agents, Hastings Street,
Calcutta

Date of issue 11-2-09

Signed by Mr S. Hirzamal

Gentlemen,

In returning herewith the app^{n} of the Monomax Rock Drilling Syndicate, Ltd of Johannesburg, for leave to file a specification of an invention, and the deed of assignment received with your letter of 23-1-09, I am directed to point out that the amount of the consideration received by the assignor has in respect of

over.

SUBJECT.

if the consideration has not been
mentioned in the deed
of assignment, I am to
request that the deed ~~may~~
& the Appl. may be returned
with the above information
and the excess Stamp fee
if any under schedule I,
art 22 of the Impore Stamp
Regn, a Copy of which is
herewith sent

to determine the proper Stamp duty leviable on the deed.

I have &c

Copy
for Secy
VS

C.S.
8/1/09

List of enclosures,

Copied by [illegible]

Examined by [illegible]

MGCPB—20,000-19-12—04.

4572

Genl. 2380/08-09

8 3

To MYSORE.

THE SECRETARY TO THE GOVERNMENT OF ~~INDIA,~~
Genl. & Rev. Departments,
~~DEPARTMENT OF REVENUE AND AGRICULTURE (PATENTS).~~
Bangalore, Mysore.

From

REMFRY & SON,

Solicitors and Patent Agents,

CALCUTTA.

Dated Calcutta, 20th May 09.

Sir,

re KONOMAX ROCK DRILL SYND LD.

With reference to Official Letter No. G.4659 dated 11th February 1909, we beg to state that the Assignment in this matter has been forwarded by us to our Agents in South Africa with instructions to have the actual amount of consideration money filled in in such Assignment by the Applicant Syndicate should it be more than the amount set out therein. The Assignment in question will be resubmitted to your Office as soon as same is received back by us, and in the meantime we return herewith the Application in this matter.

We have the honour to be,

Sir,

Your very obedient servants,

REMFRY & SON.

Enclo. Appln.

To

MYSORE,

THE SECRETARY TO THE GOVERNMENT OF ~~INDIA,~~

Genl & Rev. Department,

~~DEPARTMENT OF REVENUE AND AGRICULTURE (PATENTS)~~.

Bangalore, Mysore.

From

REMFRY & SON,

Solicitors and Patent Agents,

CALCUTTA.

Dated Calcutta, 9th July 09.

Sir,

re THE KONOMAX ROCK DRILL SYND LD.

In continuation of our letter of 20th May we have now the honour to return this Assignment the Consideration named therein having been altered to £35, and solicit the favour of your stamping such document ₹6/-.

A Post Office Order for ₹5/- is sent today (Re 1/- having been sent when forwarding the Application).

We have the honour to be,

Sir,

Your very obedient servants,

REMFRY & SON.

per

[If the letter to which this form refers, does not include the Power of Attorney, please return this form to us with the necessary enclosures for the information of this office.]

Amount of Order Rs. 5/- As.

Name of Applicant REMFRY & SON Calcutta.

12/7/09

Stamping Assignment of W Mauss to The Konomax Rock Drill Synd Ld.

REMFRY & SON.

per

Lobb V

12/8/09

Money order. if
Ltd
19/7
Lo B. & C

G.R.S. 29A]

190

From

Secy. to the Govt. of His Highness the Maharaja of Mysore, Genl. and Rev. Dept.

To

The Supdt of Stamps at Mysore.

Dated

Despatched 17.7.09

Received

General No. 4277/Gen 238-08-6
No.

Enclosure No. Two & Rs 7/-

Has the honor to forward herewith for being Stamped and returned a power of Attorney and an assignment deed received from the Honorary Rock drill Syndicate Limited of Johannesburg, Transvaal in connection with an invention for "Improvements relating to percussion machines for rock drilling and analogous purposes" and to state that the former document is

MW 15-7

to be stamped with a stamp

of Re 1 in value and two called,

with a stamp of Rs 6 in value

A sum of Rs 7 is hereunto

Sent towards the stamp[illegible] bus

Bo

For Secy

Gl Ud 2691

Gn 238708-05
dt 8

D. 330

No 25

Rs 10/-

Received From the Secretary to the Government of His Highness the Maharaja of Mysore, General and Revenue Departments, Bangalore,

the sum of Rupees Ten only, being the application fee received from Messrs Kempff & Son of Calcutta, in respect of filing a Specification for "Improvements relating to percussive machines for rock drilling and analogous purposes" and Credited this day. Vide, Secretary's No. G 276/Gn 238-08-5 dated 17 Instant.

H. H. The Maharaja's State Huzur Treasury,
Bangalore, the 19th July 1909.

~~By Order,~~

Exd.
~~Hd. Acctt.~~ ~~Bakshi.~~ Treasurer

Treasury Officer, State Huzur Treasury.

GOVERNMENT OF MYSORE

G. M. 238 of 08-09

dg

D. 332

1909

From K Krishna Iyer Bgr
Superintendent of Stamps
in Mysore
Bangalore

To The Secretary to the
Government of Mysore
General and Revenue Dpttt
Bangalore

Dated 19th

Despatched July/09

Received

General No. 17

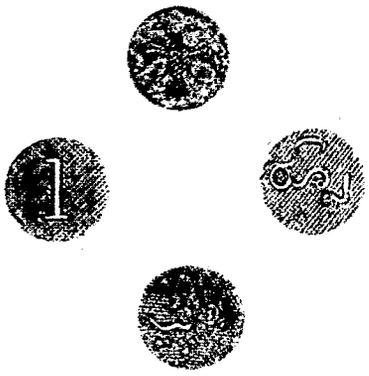
No. 7

Enclosure No. Two
Stamped documents

Sir,

I have the honor to return herewith duly Stamped the Power of attorney and the assignment received with your docket no G. 277/G.M. 238-08-6 dated 17th July 1909 and to

P O W E R O F A T T O R N E Y



In the matter of the Inventions and Designs Regulation, 1894, of the Government of Mysore, and in the matter of THE KONOMAX ROCK DRILL SYNDICATE LIMITED, of Consolidated Building, Johannesburg, Transvaal, Assignees of WILHELM MAUSS.

We, the abovenamed, THE KONOMAX ROCK DRILL SYNDICATE LIMITED, do hereby retain, constitute and appoint Henry Hamilton Remfry and Rupert Remfry, Solicitors, and Hamilton Greeves Remfry, all of Calcutta as our Agents and Attorneys to apply for and obtain from the Government of Mysore and keep in force an exclusive Privilege or Letters Patent for "Improvements relating to percussive machines for rock drilling and analogous purposes", and we authorise them to sign our name to such papers and writings and do such acts regarding the same, including the appointment of a substitute or substitutes, as may be necessary or expedient.

Dated this 24th day of December, 1908.

The common seal of The Konomax Rock Drill Syndicate Limited, was hereto affixed in the presence of:-

William Smith Thomas
Director

Wilhelm Mauss
Director

SOLICITORS & PATENT AGENTS REMFRY & SON. CALCUTTA.

MYSORE GOVERNMENT GENERAL STAMP

Nagu D 974

MYSORE GEOLOGICAL DEPT.

1909

From

W. F. SMEETH Esq., M.A., A.R.S.M., &c.,
State Geologist in Mysore.

To

K. S. Chandrasekhara Iyer
Esq., B.A., B.L.,
Secretary to the Government
of H.H. the Maharaja of Mysore

G.M. 238 of 1908-09
& 11.

Dated
Despatched 3 30th Aug. 1909
1st Sept. "
Received
General No. 670
No.

Enclosure No. One file

Ltr No. G. 278/G.M. 238-08-7
of 17th July 1909.

—

Reporting upon a
specification of an
invention received with
the above

2670
one file

M. G. D. 13]

MYSORE GEOLOGICAL DEPARTMENT,

DATED BANGALORE, 30th August 1909.

~~No.~~

From

DR. W. F. SMEETH, M.A., D.SC., A.R.S.M., etc.,
State Geologist in Mysore.

To

K.S. Chandrasekhara Iyer, Esquire, B.A.,B.L.,
Secretary to the Government of His Highness
the Maharaja of Mysore, Gen.& Rev.Depts.

SIR,

In reply to your docket No.G.278/G.A.238-08-7, dated 17th July 1909, forwarding for report a specification of an invention for "Improvements relating to percussive machines for rock drilling and ~~na~~ analogous purposes", I have the honour to state that I have examined the description given and the drawing submitted therewith.

2. The various devices are clearly described, are of a practical nature and will probably be found useful in machines of this class. So far as I am aware all the points claimed possess novel features and the claims are, I think, legitimate.

3. The enclosures received with your docket under reply are herewith returned.

I have the honour to be,
Sir,
Your most obedient servant,

W. F. Smeeth

C.N.

State Geologist in Mysore.

GPB—8-9-08—300

No G 1538/Gm 238-08-12

GOVERNMENT OF MYSORE

General Department.

Register No. 4 **of 190** 9-10.

Bangalore, the 10 Sept *190* 9

WHEREAS an application, dated the 24th December 1908 and received on the 26th January 1909 has been submitted under Section 5 of the Mysore Inventions and Designs Regulation, 1894, by The Kenomine Rock Drill Syndicate Limited, Johannesburg, Transvaal

(hereinafter referred to as "the applicant") for leave to file a specification of an invention for "Improvements relating to percussive machines for Rock drills and analogous purposes"

And whereas the applicant has duly complied with all the requirements of Section 5 of the said Regulation;

The Government of Mysore are pleased, under Section 6 of the said Regulation, to authorize the applicant to file a specification of the said invention in accordance with the provisions of the said Regulation.

ORDERED, that the applicant be, and he is hereby, informed accordingly.

By Order of the Government of Mysore,

For *Secretary to the Govt. of Mysore,*
Gen. and Rev. Depts.

Certified that the fees prescribed in the fourth schedule to the Mysore Inventions and Designs Regulation, 1894, in respect of the application for leave to file the said specification and of the filing thereof have been paid by the applicant, and that the specification hereinbefore described has been duly filed in accordance with the provisions of Section 8 of the said Regulation on this the fifth day of March 1910.

For *Secretary to the Govt. of Mysore,*
Gen. and Rev. Depts.

(Section 8 of the Inventions and Designs Regulation, 1894.)

8. (1) If within six months from the date of an order under Section 6, Sub-Section (1), or within such further time, not exceeding three months, as the Government of Mysore, in its discretion, may, on cause shown to its satisfaction and on payment of the fee prescribed in that behalf in the fourth schedule, see fit to allow, the applicant causes a specification of his invention to be filed in manner by this Part required, and the fee prescribed in the fourth schedule in respect of the filing of the specification to be paid, the applicant shall, subject to the other provisions of this Part, be entitled to the exclusive privilege of making, selling and using the invention in the Territories of Mysore, and of authorizing others so to do, for a term of fourteen years from the date of the filing of the specification.

(2) But an exclusive privilege in respect of an invention of a new manufacture shall, notwithstanding anything in Sub-Section (1), cease, if the inventor fails to pay, within the time limited in that behalf by the fourth schedule, any fee prescribed in that schedule in respect of the continuance of the privilege.

(3) If, nevertheless, in any case, by accident, mistake, or inadvertence, an inventor fails to pay any such fee within the time so limited, he may apply to the Government of Mysore for an enlargement of the time for making the payment.

(4) Thereupon the Government of Mysore may enlarge the time accordingly, on payment of the fee prescribed in that behalf in the fourth schedule, and subject to the following conditions, namely :—

(*a*) the time for making a payment shall not in any case be enlarged for more than three months ; and

(*b*) if any suit is instituted in respect of an infringement of the exclusive privilege committed after a failure to make a payment within the time limited for the making thereof and before the enlargement of that time, the Court disposing of the suit may, if it thinks fit, refuse to award or give any damages in respect of the infringement.

GPB—500—7-4-09.

Fe 974

Gen 2389 0809

G.R.S. 26]

File No.

Serial No. 13

*Diary No. of letter replied to*_____

No. G 15398.
10.9.09

General and Revenue Secretariat
( )
, *the* 190

To

Messrs Rempfry and son
Solicitors and Patent Agents
Hastings Street
Calcutta

Date of issue 10.9.09

Signed by M.O.B. Balasundaram
Dy Sec

Gentlemen,

With reference to your letter dated the 23rd January 09 forwarding an application of the Kromar Rockdrill Syndicate Limited of Johannesburg, Transvaal for leave to file a specification in respect of an invention for "Improvements relating to percussive machines for rock drilling and

over.

SUBJECT.

Dft. 9/9

analogous purposes"

I am directed to forward herewith for communication to the party concerned

this Govt. order No. 6/15381/09 in 238-08-12.

dated 16th Sept 1909 bearing the Invention Register No 4 of 1909-10.

issued in the name of the applicant authorising him to file a specification in question and to request the favour of an acknowledgment

Yours &c

Dy Sec

for Secy

bus.

List of enclosures

Copied by

Examined by

GPB—10,000—20-4-06.

CV

3623

To

THE SECRETARY TO THE GOVERNMENT OF ~~INDIA,~~ MYSORE.
Genl. & Rev. Departments,
~~DEPARTMENT OF REVENUE AND AGRICULTURE (PATENTS).~~
Bangalore, Mysore.

From

REMFRY & SON,

Solicitors and Patent Agents,

CALCUTTA.

Dated Calcutta, 1st March 10.

Sir,

Pursuant to the leave dated the 10th September 1909. (Register No. 4 of 1909) we have the honour to forward herewith 4 copies of the Specification of THE KONOMAX ROCK DRILL SYNDICATE LIMITED, of Johannesburg, Transvaal, in respect of their invention for "IMPROVEMENTS RELATING TO PERCUSSIVE MACHINES FOR ROCK DRILLING AND ANALAGOUS PURPOSES"

The prescribed fee of Rs30/- is sent by P.O.O. today.

The above mentioned Order is enclosed herewith and we solicit the favour of your filling in the date of filing Specifications as 5th March 1910 and of your signing the Certificate at foot thereof, returning such Order to us, and entering our Office in Calcutta as the Address for Service under the Act.

We have the honour to be,

Sir,

Your very obedient servants,

REMFRY & SON.

60/-

Remfry & Son

Specification fees
Konomax Rock Drill
and
John Slorach.

REMFRY & SON.
per

RG
4/3/10

To Br D for note

RG
4/3/10

4 ifs
2 Copies

MYSORE GOVT. GEN. & REV. SECRETARIAT,

No. G. 4770 *Dated Bangalore,* 15-3 1910.

G. M. 238/08-15.

NOTIFICATION.

(PATENT.)

The following specification of an invention has been filed in accordance with Sections 8, 9, 10 and 11 of Regulation XI of 1894 (The Inventions and Designs Regulations) and is open to inspection at the Mysore Government Secretariat on application to the Secretary to the Government of His Highness the Maharaja of Mysore, General and Revenue Departments, and on payment of a fee of one Rupee.

By The Konomax Rock drill Syndicate Limited of Consolidated Building, Johannesburg, Transvaal

"Improvements relating to percussive machines for rock drilling and analogous purposes"

By Order,

For offg Secretary.

To

The Compiler, *Mysore Gazette*, for publication

4 of 5

No. C. 4771-40
C. No. 238-08-216

MYSORE GOVT. GEN. & REV. SECRETARIAT,

Dated Bangalore,... 15-3- ...1910.

From

The Secretary to the Government of H. H. the Maharaja of Mysore,
General and Revenue Departments.

To

messrs Remfry and Son
Solicitors and patent Agents
Calcutta

Gentlemen,
Sir,

With reference to your letter dated the 1st march 10 I am directed to forward copy of a Notification No. C. 477 of C. No. 238-08-216 dated 15-3-10 issued by this Government in regard to the invention filed by you under Regulation XI of 1894, (The Inventions and Designs Regulation).

The order granting permission to file specification is herewith returned, with the certificate at foot, duly filled in and signed for communication to the party concerned.

I have the honor to be,

Sir,

Your most obedient servant,

for Secretary.

Typed by
Balakrishnaiah
14-3-10

G.R.S. 29A]

190

From

Secy. to the Govt. of His Highness The Maharaja of Mysore, Genl. and Rev. Dept.

To

The Officer in charge of State Sugar Dy

Dated

Despatched 15. 3. 10

Received

General No. G. 4775

G.M. No. 238-08-18

ENCLOSURE No. No 3

Has the honor to forward herewith Rs 30 (thirty of) being the fee paid by the Kowman Rock drill Syndicate Ltd of Johannesburg, Transvaal, for filing a Specification in respect of an invention for "Improvements relating to percussive machines for rock drilling

and analogous purposes'
the favor of
and to request an acknow-
ledgment.

By order

DBZ

Yr Obt Servt Secretary

VS

Typed by
B Lakshmanan
14. 3. 40.

T 20/10

6 38 39

M. G. D. 13]

MYSORE GEOLOGICAL DEPARTMENT,

DATED BANGALORE, 19 March 190

No. 1937

Gen 238 07-08
R 20/9

From

DR. W. F. SMEETH, M.A., D.SC., A.R.S.M., &c.,
State Geologist in Mysore.

To

C.S. Balasundaram Iyer, Esquire, B.A.,
Offg. Secretary to the Government of His Highness the Maharaja of Mysore, Gen. Dept.

SIR,

I have the honour to acknowledge the receipt of a copy of the specification in respect of an invention for "Improvements relating to percussion machines for Rock Drilling and analogous purposes" forwarded for record in this office with your No.G.4772-4/G.A.238-08-17, dated 15th March 1910.

I have the honour to be,
Sir,
Your most obedient servant,

C.H.

State Geologist in Mysore

G.P.B.—500—10-10-06

Gen 238/08-09
81 21

No. 357 V 1813 GV+CS 6379 Rs. 30/-

Received From the Konomax Rock Drill Syndicate Limited of Johannesburg through the Secretary to Government General and Revenue Departments, Bangalore — the sum of Rupees Thirty only, being the fee in respect of improvements relating to percussive machines for rock drilling and analogous purposes and credited thereday. Vide, Secretary's No. G 4775/Gen 238-08-18 — dated 15 March 1910.

H. H. The Maharaja's State Huzur Treasury,
Bangalore the 16 March 1910

~~By Order,~~

Exd.
Hd. Acctt. Bakshi. Treasurer

Treasury Officer, State Huzur Treasury.

9. From the Supt of Stamps
No. 17. dated 19.7.09
Returns duly stamped the power of attorney and assignment forwarded with sl. 6. above
10. To the Supt of Stamps.
No. G. 409. dated 24.7.09.
Acknowledges the receipt of the papers in sl. 9.
11. From the State Geologist.
No 670 dated 1.9.09.
Returns with his remarks the specification sent with sl. 9.
12. To the Konomax Rock Drill Syndicate Johannesburg
No. G. 1538 dated 10.9.09.
Grants them permission to file the specification in question.
13. Messrs. Alexander & Son, Calcutta.
No. G. 1539 dated 10.9.09.
Forwards sl. 12 for communication to the party concerned & requests acknt
14 From Messrs. Alexander & Son
Letter dated 1st March 1910.
Files a specification referred to in sl. 1 & forwards 4 copies of the same with Rs 30- Thirty Rupees only towards the fee
15. To the Controller Mysore Gazette.
G. G. 4770 dated 15.3.10.
Notifies the filing of the specification together

16 To Messrs. Denny & Son Calcutta

No. G 4771 dated 15. 3. 10

Forwards a Copy of the above mentioned Specification and returns the Gun duly examined at its Port

17. To the State Geologist
the Chief Engineer
the Supdt of Govt Museum

No. G. 4772. 4 dates 15. 3. 10.

Forwards to each a copy of the Specification for Gun platforms in their offices.

18. To the officer in charge of S. H. Try

No. G 4775 dated 15. 3. 10.

Forwards Rs 30 being the fee for filing the above Specification

19. From the State Geologist.

No. 1932 dated 19. 3. 10.

Acknowledges Receipt of the Specification referred to in sl. 18

20 From the Supdt Govt Museum.

Same as in sl 19.

21. From the officer in charge of S. H. Try
No. 359 dated 16. 3. 10.
Acknowledges the receipt of Rs 30 sent with sl. 18

22. From the Chief Engineer.

No. 2544 dated 21. 3. 10.